

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application : Efraim Sagiv et al.
Serial No. :
Filed : HEREWITH
For : WATER-BASED ADHESIVE
Examiner :
Attorney Docket : 102101-200
Group Art Unit :

* * * * *
I hereby certify that this correspondence is being deposited
with the United States Postal Service as First Class Mail in an
envelope addressed to: Commissioner for Patents, Washington,
D.C. 20231 on _____.

By _____

Todd E. Garabedian, Ph.D.
Registration No. 39,197
Attorney for Applicants

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to calculating the filing fee therefor, please amend
the above-identified patent application as follows:

IN THE SPECIFICATION

1. On page 1, following the title, please insert:

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a Continuation of U.S. Serial No.
09/497,562, filed February 3, 2000.

2. At page 9, please add the following paragraph between
lines 12 and 13:

The aqueous polyester polyurethane dispersion is made from
a polyester polymer and a diisocyanate compound. The polyester
polymer portion of the aqueous polyester polyurethane is
preferably made by condensing 1,4-butanediol or 1,2-ethanediol
with adipic acid. The diisocyanate compound used in the aqueous
polyester polyurethane dispersion is preferably a diisocyanate
compound selected from the group consisting of hexamethylene
diisocyanate, isophorone diisocyanate, and combinations thereof.

IN THE CLAIMS:

Please REWRITE claims 1 and 11 as follows:

1. (Amended) A water-based adhesive composition, comprising an admixture of:

A. about 5 to about 80 wt% of an aqueous polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof; and

B. about 95 to about 20 wt% of an aqueous aliphatic polyurethane dispersion.

11. (Amended) A water-based adhesive composition, comprising an admixture of:

- A. about 17.5 to about 22.5 wt% of an aqueous polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof;
- B. about 82.5 to about 77.5 wt% of an aqueous aliphatic polyurethane dispersion;
- C. about 0.005 to about 2 wt% of one or more additives selected from the group consisting of film-forming agents, adhesion promoters, tackifiers, surfactants, defoamers, decorative components, and combinations thereof; and
- D. about 0.5 to about 25 wt% of a solvent selected from the group consisting of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethoxyethanol, and combinations thereof.

Please add the following new claims:

21. A water-based adhesive composition, comprising an admixture of:

A. about 5 to about 80 wt% of an aqueous polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof;

B. about 95 to about 20 wt% of an aqueous aliphatic polyurethane dispersion; and

C. about 0.005 to about 2 wt% of an epoxylated silane adhesion promotor.

22. The water-based adhesive composition of claim 21, wherein said aqueous polyester polyurethane dispersion comprises from about 15 to about 25 wt% of said admixture, based on the total weight of said composition.

23. The water-based adhesive composition of claim 21, wherein said aqueous aliphatic polyurethane dispersion comprises from about 85 to about 75 wt% of said admixture, based on the total weight of said composition.
24. The water-based adhesive composition of claim 21, wherein said epoxylated silane adhesion promotor is γ -glycidoxypropyltrimethoxysilane.
25. The water-based adhesive composition of claim 21, further comprising about 0.5 to about 25 wt% of a solvent selected from the group consisting of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethoxyethanol, and combinations thereof.

REMARKS

The present application is a Continuation of U.S. Serial No. 09/497,562, filed February 3, 2000.

Applicants here rewrite claims 1 and 11, and add new claims 21-25 as described below. The rewritten claims are shown in marked-up form in the attached Appendix in accordance with 37 CFR §1.121(c)(1)(ii).

In this Preliminary Amendment, Applicants herein amend the specification to include a cross reference to the parent application. In addition, Applicants amend the specification at page 9 and the claims as indicated above to clarify that the aqueous polyester polyurethane dispersion of component A is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof.

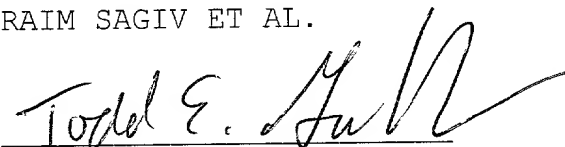
Consistent with the above specification amendments, Applicants here rewrite claims 1 and 11, and add new claims 21-25. Applicants submit that no new matter is added herewith because the additional language inserted into claims 1 and 11 are merely describing in more detail the chemical composition of Dispercoll U54 that is disclosed in the specification at page 9, line 7, and in the Examples (See Table I, page 20).

If the Examiner believes a telephone conference would aid in the continued prosecution of this application, the Examiner is invited and encouraged to contact Applicants' representative at the telephone number listed below.

Respectfully submitted,

EFRAIM SAGIV ET AL.

By



Todd E. Garabedian, Ph.D.
Registration No. 39,197
Attorney for Applicants

WIGGIN & DANA
One Century Tower
New Haven, CT 06508
Telephone: (203) 498-4400
Fax: (203) 782-2889

Date: 17 July 2001

APPENDIX

CLAIM AMENDMENTS UNDER 37 CFR §1.121(c)(1)(ii)

Claims 1 and 11 have been rewritten as follows:

1. (Amended) A water-based adhesive composition, comprising an admixture of:

A. about 5 to about 80 wt% of an aqueous polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof; and

B. about 95 to about 20 wt% of an aqueous aliphatic polyurethane dispersion.

11. (Amended) A water-based adhesive composition, comprising an admixture of:

- A. about 17.5 to about 22.5 wt% of an aqueous polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof;
- B. about 82.5 to about 77.5 wt% of an aqueous aliphatic polyurethane dispersion;
- C. about 0.005 to about 2 wt% of one or more additives selected from the group consisting of film-forming agents, adhesion promoters, tackifiers, surfactants, defoamers, decorative components, and combinations thereof; and
- D. about 0.5 to about 25 wt% of a solvent selected from the group consisting of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethoxyethanol, and combinations thereof.